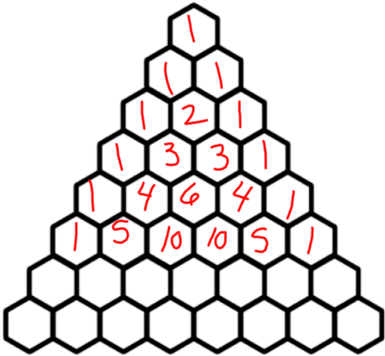


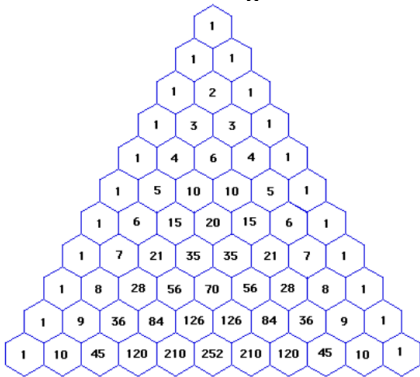
11.7 The Binomial Theorem

Th 9.1
F
T - Ch 11
Rev
Honors W = Ch 11
Test

Pascal's Triangle



Pascal's Triangle



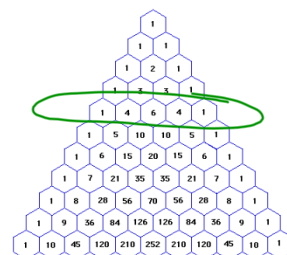
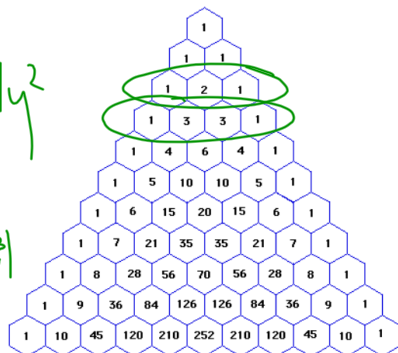
patterns

$$(x+y)^2$$

$$1x^2 + 2xy + 1y^2$$

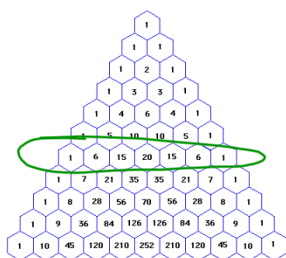
$$(x+y)^3$$

$$1x^3 + 3x^2y + 3xy^2 + 1y^3$$



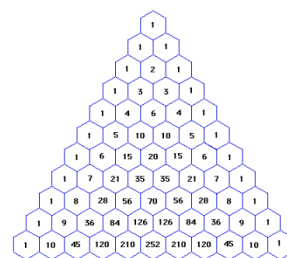
decrease powers of a
increase powers of b
(a+b)⁴

$$= 1a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + 1b^4$$

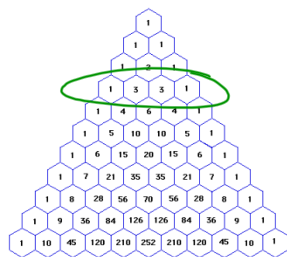


$$(x+y)^6$$

$$1x^6 + 6x^5y + 15x^4y^2 + 20x^3y^3 + 15x^2y^4 + 6xy^5 + 1y^6$$



(t-s)⁸ alternate symbols
 $t^8 - 8t^7s + \dots$



pascal.gsp